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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,891	07/08/2003	Vishnu K. Agarwal	303.628US2	9833
21186 7.	590 06/30/2005		EXAMINER	
	N, LUNDBERG, W	WOJCIECHOWICZ, EDWARD JOSEPH		
P.O. BOX 2938 MINNEAPOLIS, MN 55402-0938		ART UNIT	PAPER NUMBER	
WIINTEAL OE	5, WIN 55402-0550		2815	

DATE MAILED: 06/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)			
	10/615,891	AGARWAL			
Office Action Summary	Examiner	Art Unit			
	E Wojciechowicz	2815			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
3) Since this application is in condition for allowar					
Disposition of Claims					
4) ☐ Claim(s) 60-62,64-82 and 84-90 is/are pending 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 62,80-82 and 84-87 is/are allowed. 6) ☐ Claim(s) 60,61,64-79 and 88-90 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) acc	0) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct					
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	(PTO-413) ite atent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 60, 61, 64-79, and 88-90 are rejected under 35 U.S.C. 102(e) as being anticipated by Reinberg, of record, for the reasons given in the previous action, hereby incorporated by reference.

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in

the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

The Reinberg reference shows, in Fig. 4, the formation of a structure having a first conductive layer (12), an insulation layer (14'), a second conductive layer (24). Applicant has asked where it is taught in Reinberg that an inhibiting layer may be formed over the second conductive layer and a diffusion barrier over the inhibiting layer and the second conductive layer. The basis for the examiner's position is found in Reinberg's discussion at col. 9, I. 60-67, where Reinberg states that the second conductive layer (24) may be formed of "one or more" layers. These additional layers may be the same metals and compounds that applicant identifies as his inhibiting layer and diffusion barrier layer. These include transition metals, noble metals, and nitride compounds. Thus, Reinberg's full teaching would allow for a second conductive layer that is comprised of multiple layers just as recited in applicant's claim 1.

Allowable Subject Matter

Claims 62, 80-82 and 84-87 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to E Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571-272-1764. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

E Wojciechowicz Primary Examiner

Art Unit 2815

EW: ew